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(54) CERAMIC-COPPER COMPOSITE BODY AND ITS MANUFACTURE

(57)Abstract:

PURPOSE: To improve the durability and corrosion resistance in a ceramic-copper composite body by mixing Cu, selected metallic elements as an additive and oxides and burning the mixture.

CONSTITUTION: Each powder of Cu as essential components, an additive of at least \geq two kinds among the group of Cr, Ni, Co, Fe, Ti, V, Mn, Mo, Al, Mg and Si and the oxides of CuO, Cu₂O, Ag₂O, SnO, etc., are mixed. This mixed powder is compacted and burnt to manufacture a ceramic-copper composite body. The amt. of the additive is regulated to 0.5 to 30wt.%. By the components to be added and the formed ceramic particles, the wettability between the copper alloy as a matrix and the ceramic is improved, by which its interfacial bonding with the matrix can be attained. In this way, the composite body can be densified by sintering.

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